



Fibre Optic Active

SFP+ 40GB Multimode MM 300m

Product Description

Briticom® Small Form-Factor Pluggable (SFP) Fibre Optic Transceivers are used to interface networking devices to fibre or copper networking cables in Telecom and data applications.

Features & Benefits

- High Channel Capacity: 40 Gbps per module
- Up to 11.1Gbps Data rate per channel
- Maximum link length of 300m links on OM3 multimode fiber Or 400m links on OM4 multimode fiber
- High Reliability 850nm VCSEL technology
- Electrically hot-pluggable
- Digital diagnostic SFF-8436 compliant
- Case operating temperature range: 0°C to 70°C
- Power dissipation < 0.7W

Applications & Standards

- 40G Ethernet
- Infiniband QDR
- Fiber channel
- Compliant to IEEE 802.3ba
- Compliant to SFF-8436
- RoHS Compliant

Recommended Operating Conditions

PARAMETER	SYMB	MIN	TYP.	MAX	UNIT	NOTE
Case Operating Temperature	Tcas	0	-	70	°C	Without Air
Power Supply Voltage	VCC	3.1	3.3	3.46	V	-
Power Supply Current	ICC	-	-	200	mA	-
Data Rate	BR	-	10.31	-	Gbps	Each
Transmission Distance	TD	-	-	300	m	OM3 MMF
Transmission Distance	TD	-	-	400		

To Order

To place an order, use the contact details below.



Optical Characteristics

PARAMETER	SYMBOL	MIN	TYP.	MAX	UNIT	NOTE
Transmitter						
Center Wavelength	λ_0	840		860	nm	
Average Launch Power each lane	-	-7		1	dBm	
Spectral Width (RMS)	σ	-		0.65	nm	
Optical Extinction Ratio	ER	3		-	dB	
Average Launch Power off each lane	P _{off}	-		-30	dBm	
Transmitter and Dispersion Penalty each lane	TDP	-		3.5	dB	
Optical Return Loss Tolerance	ORL	-		12	dB	
Output Eye Mask	Compliant with IEEE 802.3ba					
Receiver						
Receiver Wavelength	λ_{in}	840		860	nm	
Rx Sensitivity per lane	RSENS	-		-9.5	dBm	1
Input Saturation Power (Overload)	P _{sat}	2.4		-	dBm	
Reciever Reflectance	R _r	-		-12	dB	
LOS De-Assert	LOSD	-		-12	dBm	
LOS Assert	LOSA	-30		-	dBm	
LOS Hysteresis	-	0.5		-	dBm	

Electrical Characteristics

PARAMETER	SYMBOL	MIN	TYP.	MAX	UNIT	NOTE
Supply Voltage	V _{cc}	3.14	3.3	3.46	V	-
Supply Current	I _{cc}	-	-	200	mA	-
Transmitter						
Input Differential Impedance	R _{in}	-	100-	-	Ω	-
Differential Data Input Swing	V _{in,pp}	180	-	1000	mV	1
Single Ended Input Voltage Tolerance	V _{inT}	-0.3	-	4.0	V	-
Receiver						
Differential Data Output Swing	V _{out,pp}	300	-	850	mV	2
Single-ended output voltage	-	-0.3	-	4.0	V	-

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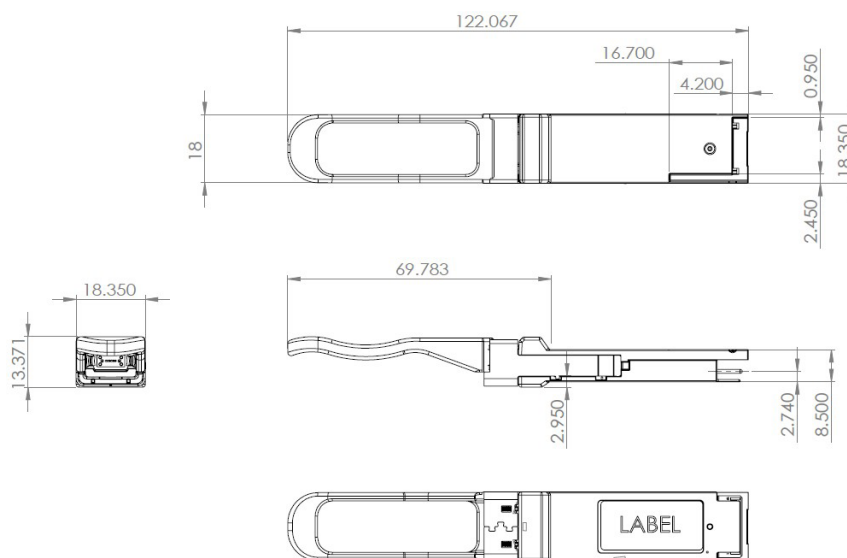
British Pride, Global Power



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Outline Dimensions



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Ordering Information

Use combinations of **bold** letters and numbers to create part numbers for ordering.

Product		Type		Coding Type*	
SFP	SFP	RJ	RJ45	CIS	Cisco
XFP	XFP	SM	Single-mode	HP	HP
QSFP	QSFP	MM	Multimode	JP	Juniper
SFP+	SFP+	BIDI	Bi-Directional	EX	Extreme
		WDM	WDM		Leave empty if no coding
		DDMI	DDMI		
		DWDM	DWDM		
		CWDM	CWDM		
⬆		⬆		⬆	
SFP+	G4X	MM	300	CIS	
⬇		⬇			
100M	ET	100m	100		
1GB	G1	300m	300		
2GB	G2	500m	500		
5GB	G5	2km	2		
6GB	G6	10km	10		
10GB	GX	20km	20		
20GB	G2X	40km	40		
40GB	G4X	80km	80		
100GB	GXX	120km	120		
Speed		Distance			

*Leave column blank if no coding

Example Part Number	
Description	Part Number
SFP+ 40GB Multimode 100m Cisco	SFPPG4XMM100CIS

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